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n		DASS, HA	ARISH T
& LEWIS LLP			
1300 Post Road Suite 205		ART UNIT	PAPER NUMBER
6430	•	3628	
	11/13/2000 0 06/27/2005 n & LEWIS LLP Suite 205	11/13/2000 Jonathan Lenchner 0 06/27/2005 n & LEWIS LLP Suite 205	11/13/2000 Jonathan Lenchner YOR920000621US1 0 06/27/2005 EXAM n DASS, H/ & LEWIS LLP Suite 205 ART UNIT

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)		
	09/712,380	LENCHNER, JONATHAN		
Office Action Summary	Examiner	Art Unit		
	Harish T. Dass	3628		
The MAILING DATE of this communication Period for Reply	appears on the cover sheet with t	he correspondence address		
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO  - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a  - If NO period for reply is specified above, the maximum statutory per  - Failure to reply within the set or extended period for reply will, by standard patent term adjustment. See 37 CFR 1.704(b).	N. R 1.136(a). In no event, however, may a reply land. reply within the statutory minimum of thirty (30 mind will apply and will expire SIX (6) MONTHS atute, cause the application to become ABAND	be timely filed ) days will be considered timely. from the mailing date of this communication. ONED (35 U.S.C. § 133).		
Status				
1) Responsive to communication(s) filed on 2	<u>5 May 2005</u> .			
2a) This action is <b>FINAL</b> . 2b) ⊠ 1	This action is non-final.			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims				
4) ⊠ Claim(s) <u>1-23</u> is/are pending in the applicat 4a) Of the above claim(s) is/are witho 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1-23</u> is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and	drawn from consideration.			
Application Papers				
9)☐ The specification is objected to by the Exam	niner.			
10)☐ The drawing(s) filed on is/are: a)☐ a	accepted or b) objected to by t	he Examiner.		
Applicant may not request that any objection to	the drawing(s) be held in abeyance.	See 37 CFR 1.85(a).		
Replacement drawing sheet(s) including the cor 11) The oath or declaration is objected to by the	•	•		
Priority under 35 U.S.C. § 119	·			
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of:  1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the papplication from the International Bur * See the attached detailed Office action for a	ents have been received. ents have been received in Appli priority documents have been received (PCT Rule 17.2(a)).	cation No eived in this National Stage		
Attachment(s)				
1) Notice of References Cited (PTO-892)	4) Interview Sumn			
<ul> <li>2) Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/Paper No(s)/Mail Date</li> </ul>		ail Date nal Patent Application (PTO-152)		

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### **DETAILED ACTION**

Applicant's request for reconsideration of the finality of the rejection of the last Office action, the finality of that action is withdrawn.

## Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 12-17 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 12 and claim 15 has Non-functional data limitation "generating random number" and this limitation is not used and considered a non-functional data.

## Claim Rejections - 35 USC § 101

2. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 1-5 & 7-17 remain rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

As an initial matter, the United States Constitution under Art. I, §8, cl. 8 gave Congress the power to "[p]romote the progress of science and useful arts, by securing for limited times to authors and inventors the exclusive right to their respective writings

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and discoveries". In carrying out this power, Congress authorized under 35 U.S.C. §101 a grant of a patent to "[w]hoever invents or discovers any new and useful process, machine, manufacture, or composition or matter, or any new and useful improvement thereof." Therefore, a fundamental premise is that a patent is a statutorily created vehicle for Congress to confer an exclusive right to the inventors for "inventions" that promote the progress of "science and the useful arts". The phrase "technological arts" has been created and used by the courts to offer another view of the term "useful arts". See In re Musgrave, 167 USPQ (BNA) 280 (CCPA 1970). Hence, the first test of whether an invention is eligible for a patent is to determine if the invention is within the "technological arts".

Further, despite the express language of §101, several judicially created exceptions have been established to exclude certain subject matter as being patentable subject matter covered by §101. These exceptions include "laws of nature", "natural phenomena", and "abstract ideas". See Diamond v. Diehr, 450, U.S. 175, 185, 209 USPQ (BNA) 1, 7 (1981). However, courts have found that even if an invention incorporates abstract ideas, such as mathematical algorithms, the invention may nevertheless be statutory subject matter if the invention as a whole produces a "useful, concrete and tangible result." See State Street Bank & Trust Co. v. Signature Financial Group, Inc. 149 F.3d 1368, 1973, 47 USPQ2d (BNA) 1596 (Fed. Cir. 1998).

This "two prong" test was evident when the Court of Customs and Patent
Appeals (CCPA) decided an appeal from the Board of Patent Appeals and Interferences
(BPAI). See In re Toma, 197 USPQ (BNA) 852 (CCPA 1978). In Toma, the court held

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that the recited mathematical algorithm did not render the claim as a whole non-statutory using the Freeman-Walter-Abele test as applied to Gottschalk v. Benson, 409 U.S. 63, 175 USPQ (BNA) 673 (1972). Additionally, the court decided separately on the issue of the "technological arts". The court developed a "technological arts" analysis:

The "technological" or "useful" arts inquiry must focus on whether the claimed subject matter...is statutory, not on whether the product of the claimed subject matter...is statutory, not on whether the prior art which the claimed subject matter purports to replace...is statutory, and not on whether the claimed subject matter is presently perceived to be an improvement over the prior art, e.g., whether it "enhances" the operation of a machine. In re Toma at 857.

In Toma, the claimed invention was a computer program for translating a source human language (e.g., Russian) into a target human language (e.g., English). The court found that the claimed computer implemented process was within the "technological art" because the claimed invention was an operation being performed by a computer within a computer.

The decision in State Street Bank & Trust Co. v. Signature Financial Group, Inc. never addressed this prong of the test. In State Street Bank & Trust Co., the court found that the "mathematical exception" using the Freeman-Walter-Abele test has little, if any, application to determining the presence of statutory subject matter but rather, statutory subject matter should be based on whether the operation produces a "useful, concrete and tangible result". See State Street Bank & Trust Co. at 1374. Furthermore, the court found that there was no "business method exception" since the court decisions

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that purported to create such exceptions were based on novelty or lack of enablement issues and not on statutory grounds. Therefore, the court held that "[w]hether the patent's claims are too broad to be patentable is not to be judged under °101, but rather under §§102, 103 and 112." See State Street Bank & Trust Co. at 1377. Both of these analysis goes towards whether the claimed invention is non-statutory because of the presence of an abstract idea. Indeed, State Street abolished the Freeman-Walter-Abele test used in Toma. However, State Street never addressed the second part of the analysis, i.e., the "technological arts" test established in Toma because the invention in State Street (i.e., a computerized system for determining the year-end income, expense, and capital gain or loss for the portfolio) was already determined to be within the technological arts under the Toma test. This dichotomy has been recently acknowledged by the Board of Patent Appeals and Interferences (BPAI) in affirming a §101 rejection finding the claimed invention to be non-statutory. See Ex parte Bowman, 61 USPQ2d (BNA) 1669 (BdPatApp&Int 2001).

In the present application, Claims 1-5 and 7-17 have no connection to the technological arts. None of the steps indicate any connection to a computer or technology.

Therefore, the claims are directed towards non-statutory subject matter. To overcome this rejection the Examiner recommends that Applicant amend the claims to better clarify which of the steps are being performed within the technological arts; for example: "computer is used to calculate average ..."

## Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Adams (US 5,274,561) in view of Rossides (US 5,620,182).

Re. Claim 1 Adams et al (US 5,274,561) discloses an apparatus for increasing a fare (amount) to a rounded-off amount and determining a purchase price (taxi-fare) for said transaction, said purchase price including a fractional cost that exceeds a whole-unit amount [see entire document particularly, Abstract; Figures 2, 4-5; C1 L20-L40; C2 L38-L64; C3 L40-L45; C4 L60 to C4 L68], and appropriate assigned key for fare round-off actuation [C3 L40-L45; C4 L32-L46]. Adams, explicitly, does not disclose generating a random number, and rounding said purchase price up or down to a whole-unit amount based on said random number.

Rossides discloses generating a random number [Abstract; Fig. 3, Fig. 5 #20; C2 L5-L30; C48 L52 to C49 L2] rounding said purchase price up or down to a whole-unit amount based on said random number [Fig. 3 # 8, # 9; C6 L57-L67; C8 L55 to C9 L15; C10 L63-L64 – see round high and round low] to eliminate coins. It would have been obvious at the time the invention was made to a person having ordinary skill in the art to combine the disclosures of Adam and Rossides to provide a random generator and

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rounding off function to evaluate expected price that a customer will pay and what is his chances to pay the discounted price (low price).

Re. Claims 2-5 & 7, Adams substantially, discloses the limitations for the claims; wherein said step of generating a random number is performed by a third party to said transaction and wherein said step of generating a random number is supervised by a third party to said transaction (a third party chauffeur, who manually adjusts the meter randomly to display the fare) [C3 L35 to C4 L46], wherein said step of generating a random number further comprises the step of obtaining a seller-generated increment value (value generated by operator by actuation of key [C4 L1-L20], and wherein said step of generating a random number further comprises the step of obtaining a buyer-provided offset value (passengers tip to driver) [C3 L65-L66]. wherein a buyer commitment to the transaction is obtained by means of currency submitted to a trusted third party prior to the generation of said random number [C1 L10-L41].

Re. Claim 6, Rossides further discloses wherein a buyer commitment to the transaction is obtained by means of currency submitted to a vending machine [Figure 4; C16 L10-L12].

Re. Claims 8-11, Adams, explicitly, does not disclose wherein said buyer-provided offset value is specified by the buyer in response to a query, and wherein said buyer-provided offset value is generated from a serial number obtained from paper currency

provided by the buyer, and wherein said buyer-provided offset value is generated from a numeric identifier obtained from a product associated with said transaction, and wherein the seller generated random number is made without access to said buyer-provided offset value. However, it is well know that random generator generates number between 0 and 1 and the offset can be any number to provide non-repeating number and this number can be currency serial number, time or other entry.

Re. Claims 12-13, Adams discloses determining a purchase price (fare), N.C. for said transaction (DM 27.60) [C4 L1-L67], said purchase price including a fractional cost equal to C/100 [DM 2.40], that exceeds a whole-unit amount, N.

Adams, explicitly, does not disclose generating a random number, and rounding said purchase price up to a price of N+ I units with a probability of p and down to a price of N units with a probability of (1-p), wherein the probability p equals C/100 and

wherein said step of generating a random number is performed in a manner that prevents a bias towards a buyer or seller.

Rossides disclose generating a random number [Figures 3-6 #20; C2 L5-L30; C48 L52 to C49 L2], and rounding said purchase price up to a price of N+ I units with a probability of p and down to a price of N units with a probability of (1-p), wherein the probability p equals C/100 (see 40/100 chance of winning) and wherein said step of generating a random number is performed in a manner that prevents a bias towards a buyer or seller [C6 L57 to C7 L2; C11 L53-L63; C49 L62 to C50 L8; C50 L35-L54 – e.g. p(NOT A) = 1-p(A) is well-known is probability or if the chance of store winning is 40%

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(0.40) means the chance of rounded up is 40% to next unit and chance of rounding down customer winning is 60% (0.60) and customer is expected to pay \$0] to eliminate coins and saving the time dealing with coins. It would have been obvious at the time the invention was made to a person having ordinary skill in the art to combine the disclosures of Adam and Rossides to provide a random generator and rounding off function to evaluate expected price that a customer will pay and what is his chances to pay the discounted price (low price).

Re. Claim 14, Adams discloses the step of obtaining a buyer commitment to the transaction (fare agreed to with the passenger) [C1 L19].

Re. Claims 15-17, these claims are rejected under the same rational as claims 12-14.

Re. Claims 18 and 23, Adams discloses a memory (Fig. 2 items 25-26, RAM & EPROM) that stores computer-readable code (EPROMs do store readable codes); and a processor operatively coupled to said memory, said processor configured to implement said computer-readable code [Fig. 2 item 20], said computer-readable code configured to: determine a purchase price for said transaction (determining fare) [Fig. 1; C2 L35-L50], and said purchase price including a fractional cost that exceeds a whole-unit amount [C4 L51-L55]. Adams does not explicitly disclose generate a random number, and round said purchase price up or down to a whole-unit amount based on said random number.

Rossides discloses generating a random number [Abstract; Fig. 3, Fig. 5 #20; C2 L5-L30; C48 L52 to C49 L2] rounding said purchase price up or down to a whole-unit amount based on said random number [Fig. 3 # 8, # 9; C6 L57-L67; C8 L55 to C9 L15; C10 L63-L64 – see round high and round low] to eliminate coins. It would have been obvious at the time the invention was made to a person having ordinary skill in the art to combine the disclosures of Adam and Rossides to provide a random generator and rounding off function to evaluate expected price that a customer will pay and what is his chances to pay the discounted price (low price).

Re. Claims 19-22, the claims are rejected under the same rational as claims 12-14.

#### Response to Arguments

4. Applicant's arguments with respect to pending claims have been considered but are most in view of the new ground(s) of rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Harish T. Dass whose telephone number is 571-272-6793. The examiner can normally be reached on 8:00 AM to 4:50 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hyung S. Sough can be reached on 571-272-6799. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Harish T Dass Examiner Art Unit 3628

6/20/05

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